

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 7, 2005, 00:51:17 ; Search time 6317 Seconds
(without alignments)
10798.186 Million cell updates/sec

Title: US-09-836-544C-28
Perfect score: 1200
Sequence: 1 ggggtgcaagaagacag.....aaataaagtacagatgacc 1200

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 5883141 seqs, 28421725653 residues

Total number of hits satisfying chosen parameters: 11766282

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

GenEmbl.*
1: gb_ba.*
2: gb_in.*
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5: gb_ov.*
6: gb_pat.*
7: gb_ph.*
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11: gb_sy.*
12: gb_un.*
13: gb_vi.*
14: gb_htg.*
15: gb_pl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1182.6	98.5	1201	6	BD015201
2	1182.6	98.5	1204	6	AR380482
3	1182.6	98.5	1204	6	AX697951
4	1182.6	98.5	1204	6	AX818155
5	1182.6	98.5	1204	8	HUMCD27A
6	1182.6	98.5	1323	8	BC012160
7	1181	98.4	1204	6	CQ721686
8	1181	98.4	1300	6	CQ869620
9	1181	98.4	1323	6	CS119000
10	1181	98.4	1323	6	CS119692
11	779.4	65.0	783	11	AY830880
12	505.6	42.1	524	6	AX778265
13	451.8	37.5	1585	9	MUSCD27A
14	435.2	36.3	1602	9	BC095844
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18	422.8	35.2	140026	8	AC005840

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21	361.2	30.1	516	6	CQ921958	CQ921958 Sequence
22	359.6	30.0	476	10	BV209629	BV209629 TNFRSF7.2
23	299.6	25.0	321	10	G06406	G06406 human STS-W
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ALIGNMENTS

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LOCUS BD015201 1201 bp DNA linear PAT 27-AUG-2002
DEFINITION TLISA cell surface antigen and CD27 cell surface antigen, and utilization thereof.
ACCESSION BD015201 GI:22556008
VERSION BD015201.1
KEYWORDS JP 2001157592-A/19,
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 1201)
AUTHORS Seed,B., Aruffo,A. and Amiot,M.
TITLE TLISA cell surface antigen and CD27 cell surface antigen, and utilization thereof
JOURNAL Patent: JP 2001157592-A 19 12-JUN-2001;
THE GENERAL HOSPITAL CORP
COMMENT OS Homo sapiens (human)
PN JP 2001157592-A/19
PD 12-JUN-2001
PF 04-OCT-2000 JP 2000305557
PR 13-JUN-1990 US 553759
PI BRIAN SEED,ALEJANDRO ARUFFO,MARTIN AMIOT
PC C12N15/09,C07K14/725,G01N33/53,C12N15/00
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CC thereof
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FT CDS Location/Qualifiers
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Location/Qualifiers
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ORIGIN

Query Match 98.5%; Score 1182.6; DB 6; Length 1201;
Best Local Similarity 99.6%; Pred. No. 1.6e-271;
Matches 1196; Conservative 0; Mismatches 4; Indels 1; Gaps 1;


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Db 1201 C 1201
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RESULT 3
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LOCUS
DEFINITION Sequence 1 from Patent W003009862.
ACCESSION AX697951
VERSION AX697951.1 GI:29499010
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
1
REFERENCE Lucas,J., Dyalynas,D. and Briggs,K.
AUTHORS Agonists and antagonists of modumet for use in the treatment of
TITLE metabolic disorders
JOURNAL Patent: WO 03009862-A 1 06-FEB-2003;
GENSET SA (PR)
FEATURES
Location/Qualifiers
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ORIGIN
Query Match 98.5%; Score 1182.6; DB 6; Length 1204;
Best Local Similarity 99.6%; Pred. No. 1.6e-271;
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DEFINITION	Sequence 7620 from Patent WO02068579.			
ACCESSION	CQ721686			
VERSION	CQ721686.1	GI:42282543		
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SOURCE	Homo sapiens			
ORGANISM	Homo sapiens			
REFERENCE	Venter, C.J., Adams, M.C., Li, P.W. and Myers, E.W.			
AUTHORS	Kits, such as nucleic acid arrays, comprising a majority of			
TITLE	humanexons or transcripts, for detecting expression and other uses thereof			
JOURNAL	Patent: WO 02068579-A 7620 06-SEP-2002;			
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DEFINITION CS119692
ACCESSION CS119692
VERSION CS119692.1 GI:70667638
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominiidae; Homo.
1
REFERENCE
AUTHORS Bertucci, F., Houlgatte, R., Birnbaum, D. and Debono, S.
TITLE Gene expression profiling of colon cancer by dna microarrays and correlation with survival and histoclinical parameters
JOURNAL Patent: WO 2005054508-A 1739 16-JUN-2005;
Ipsogen (FR); Institut Paoli-Calmettes, Ipc (FR); Institut National de la Sante et de la Recherche Medicale (INSERM) (FR)
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ORIGIN
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Best Local Similarity 99.5%; Pred. No. 3.8e-271;
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LOCUS AX778265 524 bp DNA linear PAT 14-JUL-2003
DEFINITION Sequence 422 from Patent WO03039443.
ACCESSION AX778265
VERSION AX778265.1 GI:32695259
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1
AUTHORS Haferlach, T., Schoch, C., Kern, W., Kohlmann, A., Schnittger, S.,
Dugas, M., Ellis, R., Brors, B. and Mergenthaler, S.
TITLE Novel genetic markers for leukemias
JOURNAL Patent: WO 03039443-A 422 15-MAY-2003;
Deutsches Krebsforschungszentrum (DK) ;
Ludwig-Maximilian-Universitaet Muenchen (DE) ;
PD Dr. Dr. (DE) ; Schoch, Claudia (DE) ; Kern, Wolfgang (DE)
FEATURES
source
1. 524
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/mol_type="unassigned DNA"
/db_xref="taxon:9606"
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Best Local Similarity 99.0%; Pred. No. 8.1e-110;
Matches 519; Conservative 0; Mismatches 4; Indels 1; Gaps 1;
Qy 649 CTTGTGAGCTCGGATTTTATTCGCATCCTTGTGATCTTCTCGAATGTTCTTGT 708
Db 1 CTTGTGAGCTCGGATTTTATTCGCATCCTTGTGATCTTCTCGAATGTTCTTGT 60
Qy 709 CACCTGGCGGGGCTTCTCCATCAACGAGGAAATATAGATCAAAACGAGAGA 768
Db 61 CACCTGGCGGGGCTTCTCCATCAACGAGGAAATATAGATCAAAACGAGAGA 120
Qy 769 AAGTCTGTGGAGCTGCAGAGCCTTGTGTTACAGCTGCCCCAGGAGGAGGAGGAG 828
Db 121 AAGTCTGTGGAGCTGCAGAGCCTTGTGTTACAGCTGCCCCAGGAGGAGGAGGAG 180
Qy 829 CACCATCCCATCCAGGAGGATTACCGAAACCGGAGCCTGCTGCTCCCCCTGAGCCAG 888
Db 181 CACCATCCCATCCAGGAGGATTACCGAAACCGGAGCCTGCTGCTCCCCCTGAGCCAG 240
Qy 889 CACTGCGGTAGTGCAGCTACAGCCCTGGCTCCACCCCGCCAGCCATCCCAAGG 948
Db 241 CACTGCGGTAGTGCAGCTACAGCCCTGGCTCCACCCCGCCAGCCATCCCAAGG 300
Qy 949 GAGAGTCAGACCTGGCAGCACAACACTGCAGTCCCATCCTTGTGAGGGCCCTTTCCTGT 1008

Db 301 GAGAGTGAGACCTGGCAGCCACAACTGCAGTCCCATCTTGTGAGGCCCTTTCTCTGT 360
Qy 1009 GTACACGTGCACAGAGTGCCTTTTCGAGACTGCGCAGGACGAGACAAAATATGATGAGGT 1068
Db 361 GTACACGTGCACAGAGTGCCTTTTCGAGACTGCGCAGGACGAGACAAAATATGATGAGGT 420
Qy 1069 GGAGAGTGGGAAGCAGGAGCCCGCAGCAGCTGCGCGGCGG- TGCAGAGGCGCGGGCTCT 1127
Db 421 CGAGAGTGGGAAGCAGGAGCCCGCAGCAGCTGCGCTGCGCTGCGAGGCGCGGGCTCT 480
Qy 1128 GCTTGTAGGCACACTTCTCTGCTGCGAAGACCCACATCTCTACA 1171
Db 481 GGTGTGAAACACACTTCTCTGCTGCGAAGACCCACATCTCTACA 524
RESULT 13
LOCUS MUSCD27A 1585 bp mRNA linear ROD 25-SEP-1993
DEFINITION Mus musculus CD27 antigen (Cd27) mRNA.
ACCESSION L24495
VERSION L24495.1 GI:403146
KEYWORDS CD27 antigen.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 1585)
AUTHORS Gravestein, L.A., Blom, B., Nolten, L.A., de Vries, E., van der
Horst, G., Ossendorp, F., Borst, J. and Loenen, W.A.
TITLE Cloning and expression of murine CD27: comparison with 4-1BB,
another lymphocyte-specific member of the nerve growth factor
receptor family
JOURNAL Eur. J. Immunol. 23 (4), 943-950 (1993)
PUBMED 8384562
COMMENT Original source text: Mus musculus (strain B6/CBAF1J) (library:
oligo dt in lambda ZAP) female Juvenile, 6-8 weeks thymus cdna to
mRNA.
FEATURES
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1. 1585
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/strain="B6/CBAF1J"
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/sex="female"
/tissue_type="thymus"
/dev_stage="Juvenile, 6-8 weeks"
/tissue_lib="oligo dt in lambda ZAP"
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Best Local Similarity 73.2%; Pred. No. 5e-97;
Matches 633; Conservative 0; Mismatches 202; Indels 30; Gaps 3;
Qy 69 GGCACAGAAAGGAGCGCTGGCAGGAGCCATGCGAGCGGCACATCCCTGCTGGTGT 128
Db 146 GGCCTCAGAAAGATCTCCCTGGCAGGAGCTATGCGATGGCCACCTCTACTGGCTCT 205
Qy 129 GCGTTCTGGGACCTGTGGGGCTCTCAGCTACTCTCAGCCCGCCAGAGCTGCCAGAGA 188
Db 206 GCATGTCTGGGACCTTGGTAGGACTCTCAGCTACCTCCCTAGCCCAACAGCTGTCCAGACA 265
Qy 189 GGCACCTACTGGGCTCAGGGAAAGCTGTGCTGCCAGATGTGTGAGCAGGAACTTCCTCG 248
Db 266 AACCTACTGAGCTGGGGAGGACTCTGCTGCCGATGTGTGAGCCAGGTACATCTTTG 325
Qy 249 TGAAGGACTGTGACCAAGCATAGAAAGCTGCTCAGTGTGATCTTGCATACCGGGGTCT 308
Db 326 TGAAGGACTGTGAAACAAGACAGAAACAGCTGCTCAGTGTGATCTCTGTATACCGGCACCT 385
Qy 309 CTTTCTCTCTGACCAACACACCGCGGCCCTCTGTGAGAGCTGTGCGACCTGTAACCTG 368
Db 386 CTTTCTCTCAGACTACCAACCGCGGCCCTCTGCGAGAGCTGCGAGGACTGTGTAACCTG 445

CONSRTM TITLE	Mammalian Gene Collection Program Team Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)									
JOURNAL	12477932									
REFERENCE	2 (bases 1 to 1602)									
AUTHORS	NIH MGC Project Direct Submission									
CONSRTM TITLE	Submitted (06-MAY-2005) National Institutes of Health, Mammalian Gene Collection (MGC), Bethesda, MD 20892-2590, USA									
JOURNAL	NIH-MGC Project URL: http://mgc.nci.nih.gov									
REMARK	Contact: MGC help desk									
COMMENT	Email: cgabbs-remail.nih.gov Tissue Procurement: Drs. Josef Lazar & Howard Jacob, Medical College of Wisconsin cDNA Library Preparation: Open Biosystems cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Sequencing Group at the Stanford Human Genome Center, Stanford University School of Medicine, Stanford, CA 94305 Web site: http://www-shgc.stanford.edu Contact: (Dickson, Mark) mcd@paxil.stanford.edu Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers, R. M.									
FEATURES	Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Series: IRAK Plate: 227 Row: c Column: 6 This clone was selected for full length sequencing because it passed the following selection criteria: Hexamer frequency ORF analysis, Similarity but not identity to protein.									
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ORIGIN	Query Match 36.3%; Score 435.2; DB 9; Length 1602; Best Local Similarity 73.4%; Pred. No. 4.6e-93; Matches 611; Conservative 0; Mismatches 188; Indels 33; Gaps 3;									
QY	69	GGGCA	CAGAA	GAGGAC	CGCGCTGGG	CAGGAC	CGGACCATGGC	AGCGGCACAT	CCCTGGTGGCTGT	128
Db	32	GGGCT	CAGAGA	AGCTCT	CCCTGAG	CAGGAG	CGCCATGGC	AGCGGCACAT	CCCTGGTGGCTCT	91
QY	129	GGGT	CTGGG	ACCCCT	GGTGGG	CTCTCAG	CTACTCC	AGCCCC	CAAGAGCTGCC	188
Db	92	GCAT	GCTGGG	ACCTT	GGTAGG	CTTGTAG	CTACCC	AGCCCA	AAACAACTGTCC	151
QY	189	GGCA	CTACTG	GGCTCAG	GGAAAG	CTGTG	CTGCCAG	ATGTGTG	AGCCAGGAA	248

(Nuc. Acids Res. 25:3389-3402) similarity (expect < 1e-34) to the EST and cDNA sequences. Genes demonstrate at least two exons flanked by consensus splice sites that maintained sequence continuity across the splice junctions. Sequences that are not identical matches are annotated as similar.

SEQUENCING READ COVERAGE: Sequencing is completed to a minimum standard of double strand coverage with a minimum of 2 clones and 2 reads with no ambiguities or 2 chemistries with a minimum of 2 clones and 3 reads with no ambiguities. If the sequence quality for a region does not meet this standard, it will be indicated in the annotation as Low Coverage.

QUALITY OF INDIVIDUAL BASES: This sequence meets stringent quality standards - estimated error rate less than 1 per 10,000 bases. Reports of lowest quality individual bases and measures of base quality are listed below. Description of the metrics can be found at URL:

http://www.hgsc.bcm.tmc.edu:8088/quality.info/genbank.annotation.ht ml.

FEATURES

source

Location/Qualifiers

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/db_xref="taxon:9606"
/chromosome="12"
/clone="RP5-940J5"

8..226

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1434..1665

/rpt_family="MER46C"

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3610..3892

/rpt_family="AluJb"

3893..3916

/rpt_family="(CA)n"

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4736..4759

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complement(4763..4992)

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complement(6102..6412)

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/rpt_family="L1ME3A"

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8411..8539

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8519..8823

/standard_name="WI-7129"

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11303..11606

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12500..12656

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12769..12877

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repeat_region

complement(12880..13170)

repeat_region

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repeat_region

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repeat_region

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19185..19337

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/standard_name="RH44502"

Query Match

Best Local Similarity 35.5%; Score 426; DB 8; Length 172571;

Matches 440; Conservative 0; Mismatches 5; Indels 1; Gaps 1;

QY

756

DB

8383

QY

816

DB

8443

QY

876

DB

8503

QY

936

DB

8563

QY

996

DB

8623

QY

1056

DB

8683

QY

1115

DB

8743

QY

1175

DB

8803

Search completed: December 7, 2005, 06:01:41

Job time : 6324 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 7, 2005, 00:47:12 ; Search time 810 Seconds
(without alignments)
9873.619 Million cell updates/sec

Title: US-09-836-544C-28

Perfect score: 1200

Sequence: 1 ggggtgcaagaagacagc.....aaataaagtacagatgacc 1200

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 4996997 seqs, 3332346308 residues

Total number of hits satisfying chosen parameters: 9993994

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

N_Geneseq_21.*

- 1: Geneseqn1980s.*
- 2: Geneseqn1990s.*
- 3: Geneseqn2000s.*
- 4: Geneseqn2001as.*
- 5: Geneseqn2001bs.*
- 6: Geneseqn2002as.*
- 7: Geneseqn2002bs.*
- 8: Geneseqn2003as.*
- 9: Geneseqn2003bs.*
- 10: Geneseqn2003cs.*
- 11: Geneseqn2003ds.*
- 12: Geneseqn2004as.*
- 13: Geneseqn2004bs.*
- 14: Geneseqn2005s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1200	100.0	1200	2	AAV63459 Human CD2
2	1200	100.0	1200	2	AAV81216 Human CD2
3	1200	100.0	1200	4	AAV81216 Human T-1
4	1200	100.0	1200	12	AAV81216 Human T-1
5	1200	100.0	1200	2	AAV81216 Human T-1
6	1196.8	99.7	1200	2	AAV81216 Human CD2
7	1196.8	99.7	1200	3	AAV81216 Human cel
8	1182.6	98.5	1204	8	AAV81216 Human cel
9	1182.6	98.5	1204	8	AAV81216 Human cel
10	1182.6	98.5	1204	10	AAV81216 Human cel
11	1182.6	98.5	1204	10	AAV81216 Human cel
12	1182.6	98.5	1204	11	AAV81216 Human cel
13	1182.6	98.5	1204	12	AAV81216 Human cel
14	1182.6	98.5	1204	13	AAV81216 Human cel
15	1182.6	98.5	1711	12	AAV81216 Human cel
16	1181	98.4	1300	13	AAV81216 Human cel
17	1181	98.4	1323	12	AAV81216 Human cel
18	1179.4	98.3	1204	13	AAV81216 Human cel
19	1179.4	98.3	1204	13	AAV81216 Human cel

20	1057.4	88.1	1479	13	ACN42265	Acn42265 Human dia
21	783	65.2	783	14	ADV43499	Adv43499 Human psy
22	731.4	60.9	1148	13	ACN42266	Acn42266 Human dia
23	564.8	47.1	622	14	ACL60681	AcL60681 Human col
24	518.6	43.2	892	4	AAI85846	Aai85846 Human pol
25	505.6	42.1	524	10	ADF79866	Adf79866 Leukaemia
26	426	35.5	172570	6	ABQ88207	Abq88207 Human ost
27	424.4	35.4	26815	13	ABD32558	Abd32558 Human can
28	369.4	30.8	1290	13	ABD32557	Abd32557 Mouse can
29	361.2	30.1	516	13	ADU12719	Adul2719 Solid tum
30	235.8	19.7	483	4	AAI15981	Aai15981 Probe #59
31	235.8	19.7	483	4	ABA58384	Aba58384 Human foe
32	235.8	19.7	483	4	AAI38019	Aai38019 Probe #67
33	235.8	19.7	483	4	ABA27495	Aba27495 Probe #59
34	235.8	19.7	483	4	AAK32170	Aak32170 Human bon
35	235.8	19.7	483	4	AAK06489	Aak06489 Human bra
36	235.8	19.7	483	4	ABQ31867	Abq31867 Human liv
37	235.8	19.7	483	6	ABQ06937	Abq06937 Human gen
38	234.4	19.5	455	4	AAI25198	Aai25198 Probe #15
39	234.4	19.5	455	4	ABA70980	Aba70980 Human foe
40	234.4	19.5	455	4	AAI51177	Aai51177 Probe #19
41	234.4	19.5	455	4	ABA37400	Aba37400 Probe #15
42	234.4	19.5	455	4	AAK45226	Aak45226 Human bon
43	234.4	19.5	455	4	AAK19256	Aak19256 Human bra
44	234.4	19.5	455	4	ABQ44899	Abq44899 Human liv
45	234.4	19.5	455	6	ABS19476	Abs19476 Human gen

ALIGNMENTS

RESULT 1						
AAV63459						
ID	AAV63459	standard; cDNA; 1200 BP.				
XX	AC	AAV63459;				
XX	DT	25-MAR-2003 (revised)				
DT	07-JUN-1999	(first entry)				
XX	DE	Human CD27 antigen cDNA.				
XX	XX	CD27; cell surface antigen; human; T lymphocyte; cloning; ss.				
XX	OS	Homo sapiens.				
XX	Key	Location/Qualifiers				
PH	CDS	101..883				
FT		/*tag= a				
FT	sig_peptide	101..160				
FT		/*tag= b				
FT	mat_peptide	161..880				
FT		/*tag= c				
XX	US5830731-A.					
PN	03-NOV-1998.					
PD	21-MAY-1997;	97US-00861205.				
XX	25-FEB-1988;	88US-00160416.				
XX	13-JUL-1989;	89US-00379076.				
PR	23-MAR-1990;	90US-00498809.				
PR	13-JUL-1990;	90US-00553759.				
PR	01-DEC-1992;	92US-00983647.				
XX	(GEO) GEN HOSPITAL CORP.					
PA	Seed B, Aruffo A;					
XX	WPI; 1998-609251/51.					
DR	P-PSDB; AAW80451.					
XX						

PT New cloning vector and poly:linker - based on existing sequences for
PT efficient cloning and expression of mammalian cDNA(s), especially human
PT lymphocyte antigenic sequences.

PS Example 13; Col 65-66; 75pp; English.

XX This nucleotide sequence comprises human CD27 cDNA. The cDNA was isolated
CC from a human T lymphocyte cDNA library using a novel method for cloning
CC cDNAs from mammalian expression libraries. The method is based on
CC transient expression of an antigen in eukaryotic cells and physical
CC selection of cells expressing the antigen by adhesion to an antibody-
CC coated substrate. The method is useful for the isolation and molecular
CC cloning of any protein which can be expressed and transported to the cell
CC surface membrane of a eukaryotic cell. It has been used to clone genes
CC (see AAV63442-63) encoding cell surface antigens from mammalian
CC lymphocytes (see AAW80440-55). The purified genes and proteins are useful
CC for immunodiagnostic and immunotherapeutic applications, including the
CC diagnosis and treatment of immune-mediated infections, diseases, and
CC disorders of animals, including humans. CD27 (see AAW80451), a T
CC lymphocyte activation antigen, has been expressed in COS cells. (Updated
CC on 25-MAR-2003 to correct PR field.)

XX Sequence 1200 BP; 260 A; 373 C; 341 G; 226 T; 0 U; 0 Other;

Query Match 100.0%; Score 1200; DB 2; Length 1200;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1200; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	GGGGTCAAAGAGAGACAGACGCGCCAGCTTGGAGGTGCTAACTCCAGAGGCCAGCAT	60
DB	1	GGGGTCAAAGAGAGACAGACGCGCCAGCTTGGAGGTGCTAACTCCAGAGGCCAGCAT	60
QY	61	CAGCACTGGGCACAGAAAGAGCCCTGGGGCAGGACCATGGCAGGCCACATCCCTG	120
DB	61	CAGCACTGGGCACAGAAAGAGCCCTGGGGCAGGACCATGGCAGGCCACATCCCTG	120
QY	121	GTGGCTGTGCTTCTGGGACCTGTGGGGCTCTCAGTACTCCAGCCCCCAAGAGCTG	180
DB	121	GTGGCTGTGCTTCTGGGACCTGTGGGGCTCTCAGTACTCCAGCCCCCAAGAGCTG	180
QY	181	CCAGAGAGGCACACTACTGGGCTCAGGGAAGCTGTGCTGCCAGATGTGTGAGCCAGGAAC	240
DB	181	CCAGAGAGGCACACTACTGGGCTCAGGGAAGCTGTGCTGCCAGATGTGTGAGCCAGGAAC	240
QY	241	ATTCTCTGTGAAGGACTGTGACAGACATAGAAAGGCTGCTCAGTGATCTTGCATACC	300
DB	241	ATTCTCTGTGAAGGACTGTGACAGACATAGAAAGGCTGCTCAGTGATCTTGCATACC	300
QY	301	GGGGGTCTCCTTCTCTGACCAACACACCGGGCCCACTGTGAGAGCTGTGGCACCTG	360
DB	301	GGGGGTCTCCTTCTCTGACCAACACACCGGGCCCACTGTGAGAGCTGTGGCACCTG	360
QY	361	TAACTCTGCTTCTCGTTTCGCAATGCAACCACTACTGCCAATGTGAGTGTGCTGTGCG	420
DB	361	TAACTCTGCTTCTCGTTTCGCAATGCAACCACTACTGCCAATGTGAGTGTGCTGTGCG	420
QY	421	CAATGCTGGCAGTGACGAGGACAGAGATGACCCGAGTGATCTCTTCCAAAACCTTTC	480
DB	421	CAATGCTGGCAGTGACGAGGACAGAGATGACCCGAGTGATCTCTTCCAAAACCTTTC	480
QY	481	GCTGACCGCTCGGTCTGTCTCAGGCCCTGAGCCACACACCTCTCAGCCACCACTTACTTA	540
DB	481	GCTGACCGCTCGGTCTGTCTCAGGCCCTGAGCCACACACCTCTCAGCCACCACTTACTTA	540
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DB	601	GCAGCTGCTGCCCGACTCTCTTACCACTGCGCCACCCCAAGATCCCTGTGAGCTC	660
QY	661	CGATTTTATTCGATCTTCTCTGGAATGTTCTTGTTCACCTGSCCGG	720

DB	661	CGATTTTATTCGATCTTCTCTGGAATGTTCTTGTTCACCTGSCCGG	720
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DB	721	GGCCCTGTTTCTCCATCAACGAAGGAAATATAGATCAAAACAAAGGAGAAAGTCTCTGGA	780
QY	781	GCCTCAGAGCCTTGTCTTACAGCTGCCCCCAGGGAGGAGGGCAGCACCATCCCCAT	840
DB	781	GCCTCAGAGCCTTGTCTTACAGCTGCCCCCAGGGAGGAGGGCAGCACCATCCCCAT	840
QY	841	CCAGAGGAGATTACCGAAACCCGAGCCTCCCTGCTCCCCCTGAGCCAGCACCTGCGGTAG	900
DB	841	CCAGAGGAGATTACCGAAACCCGAGCCTCCCTGCTCCCCCTGAGCCAGCACCTGCGGTAG	900
QY	901	CTGCACTACAGCCCTGGCCTCCACCCCAACCCCGCGACCATCCAAAGGAGAGTGAGACC	960
DB	901	CTGCACTACAGCCCTGGCCTCCACCCCAACCCCGCGACCATCCAAAGGAGAGTGAGACC	960
QY	961	TGGCAGCCCAACTGCAGTCCCATCTTGTGAGGGCCCTTCTGTGTACACGTGACA	1020
DB	961	TGGCAGCCCAACTGCAGTCCCATCTTGTGAGGGCCCTTCTGTGTACACGTGACA	1020
QY	1021	GAGTGCCTTTTCGAGACTGGCAGGACCGAGGACAAATATGAGTGGAGTGGGAA	1080
DB	1021	GAGTGCCTTTTCGAGACTGGCAGGACCGAGGACAAATATGAGTGGAGTGGGAA	1080
QY	1081	GCAGGAGCCACAGCTGCGCGCGTGCAGAGGGCGGGGCTCTGTTGTAAGGCAC	1140
DB	1081	GCAGGAGCCACAGCTGCGCGCGTGCAGAGGGCGGGGCTCTGTTGTAAGGCAC	1140
QY	1141	ACTTCTCTGCGAAGACCCACATGCTACAGACGGGCAAAATAAGTGCAGATGACC	1200
DB	1141	ACTTCTCTGCGAAGACCCACATGCTACAGACGGGCAAAATAAGTGCAGATGACC	1200

RESULT 2
AAV81216
ID AAV81216 standard; cDNA; 1200 BP.

XX AAV81216;
XX AC AAV81216;
XX 10-MAY-1999 (first entry)
XX Human CD27 antigen cDNA.
XX CD27; cell surface antigen; human; T lymphocyte; cDNA library; ss.
XX Homo sapiens.

Key	Location/Qualifiers
CDS	101..883
sig_peptide	/*tag= a
mat_peptide	/*tag= b
	161..880
	/*tag= c

US5849898-A.
15-DEC-1998.
07-JUN-1995; 95US-00485447.
25-FEB-1988; 88US-00160416.
13-JUL-1989; 89US-00379076.
23-MAR-1990; 90US-00498809.
13-JUL-1990; 90US-0053759.
01-DEC-1992; 92US-00983647.
(GEO) GEN HOSPITAL CORP.
Seed B, Oquendo C, Camerini D, Stamenkovic I, Stengelin S;

```
PI Amiot M, Lauffer L, Allen J, Simmons D, Aruffo A;
XX WPI: 1999-069813/06.
DR P-PSDB; AAW86198.
XX
XX cDNA encoding human CD40 antigen - useful for cloning cDNA encoding cell
PT surface antigens, constructing cDNA libraries, expressing vectors for
PT expression in eukaryotic cells or their fragments.
XX
XX Example 13; Col 65-66; 79pp; English.
XX
XX This nucleotide sequence comprises human CD27 cDNA. The cDNA was isolated
CC from a human T lymphocyte cDNA library using a novel method for cloning
CC cDNAs from mammalian expression libraries. The method is based on
CC transient expression of an antigen in eukaryotic cells and physical
CC selection of cells expressing the antigen by adhesion to an antibody-
CC coated substrate. The method is useful for the isolation and molecular
CC cloning of any protein which can be expressed and transported to the cell
CC surface membrane of a eukaryotic cell. It has been used to clone genes
CC (see AAW81198-220) encoding cell surface antigens such as CD1a, CD1b,
CC CD1c, CD2, CD6, CD7, CD13, CD14, CD16, CD19, CD20, CD22, CD26, CD27,
CC CD28, CD31, CD32, CD33, CD34, CD36, CD37, CD38, CD39, CD40,
CC CD43, CD44, CD53, ICAM, LFA-3, FcR1b, FcR1a, and Leu8 (see AAW86198
CC -62, AAW89151-52 and AAW88451). CD40 cDNA (see AAW81198) is specifically
CC claimed. CD27, a T lymphocyte activation antigen, has been expressed in
CC COS cells
XX
XX Sequence 1200 BP; 260 A; 373 C; 341 G; 226 T; 0 U; 0 Other;
SQ
Query Match 100.0%; Score 1200; DB 2; Length 1200;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1200; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGGGTGCAAGAGAGACAGCAGGCGCCAGCTTGGAGGTGCTAACTCCAGAGGCCAGCAT 60
DB 1 GGGGTGCAAGAGAGACAGCAGGCGCCAGCTTGGAGGTGCTAACTCCAGAGGCCAGCAT 60
QY 61 CAGCAACTGGGCAAGAGAGAGAGCGCCGCTGGGAGGACCATGGCAGCGGCACATCCCTG 120
DB 61 CAGCAACTGGGCAAGAGAGAGAGCGCCGCTGGGAGGACCATGGCAGCGGCACATCCCTG 120
QY 121 GTGGCTGTGGGACCTCTGGTGGGCTCTCAGTACTCCAGCCCCCAAGAGCTG 180
DB 121 GTGGCTGTGGGACCTCTGGTGGGCTCTCAGTACTCCAGCCCCCAAGAGCTG 180
QY 181 CCCAGAGAGGCACTACTGGGCTCAGGGAAGCTGTGTGCCAGATGTGTAGCCAGGAAC 240
DB 181 CCCAGAGAGGCACTACTGGGCTCAGGGAAGCTGTGTGCCAGATGTGTAGCCAGGAAC 240
QY 241 ATTCTCTGTGAAGACTGTGACCAAGCATAGAAAGGCTGCTCAGTGTGATCTTCATACC 300
DB 241 ATTCTCTGTGAAGACTGTGACCAAGCATAGAAAGGCTGCTCAGTGTGATCTTCATACC 300
QY 301 GGGGCTCTCTCTCTGTACACCAACACACCGGCGCCCACTGTGAGAGCTGTGGCACTG 360
DB 301 GGGGCTCTCTCTCTGTACACCAACACACCGGCGCCCACTGTGAGAGCTGTGGCACTG 360
QY 361 TAACTCTGGTCTTCTCGTTGCGAACTGCAACATCACTGCCAATGCTGAGTGTGCTGTG 420
DB 361 TAACTCTGGTCTTCTCGTTGCGAACTGCAACATCACTGCCAATGCTGAGTGTGCTGTG 420
QY 421 CAATGGCTGGCAGTGCAGGAGCAGAGAGTGCACCGAGTGTATCTTCCAAACCTTC 480
DB 421 CAATGGCTGGCAGTGCAGGAGCAGAGAGTGCACCGAGTGTATCTTCCAAACCTTC 480
QY 481 GCTGACCGCTCGGTCTCAGGCGCTCAGGCCACACCCCTCAGCCCACTTACCTTA 540
DB 481 GCTGACCGCTCGGTCTCAGGCGCTCAGGCCACACCCCTCAGCCCACTTACCTTA 540
QY 541 TGTGAGTGTGAGTGTGGAGGCCAGGACAGTGGGCACATGAGACTCTGGGTGACTTCAG 600
DB 541 TGTGAGTGTGAGTGTGGAGGCCAGGACAGTGGGCACATGAGACTCTGGGTGACTTCAG 600
QY 601 GCAGCTGCTGCCCGGAGCTCTCTTACCCAGCTGGCCACCCCAAGATCCCTGTGCAGCTC 660
DB 601 GCAGCTGCTGCCCGGAGCTCTCTTACCCAGCTGGCCACCCCAAGATCCCTGTGCAGCTC 660
QY 661 CGATTTTATTCGATCCTTGTGATCTTCTCGAATGTTCTTGTGTTTTCACCCCTGGCCGG 720
DB 661 CGATTTTATTCGATCCTTGTGATCTTCTCGAATGTTCTTGTGTTTTCACCCCTGGCCGG 720
QY 721 GGCCTCTGTTCTCCATCAACGAAGAAATATAGATCAAAACAAAGGAGAAAGTCTCTGGA 780
DB 721 GGCCTCTGTTCTCCATCAACGAAGAAATATAGATCAAAACAAAGGAGAAAGTCTCTGGA 780
QY 781 GCTTCAGAGCCTTGTGCTTACAGCTGCCCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 840
DB 781 GCTTCAGAGCCTTGTGCTTACAGCTGCCCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 840
QY 841 CCAGGAGGATTACCGAAACCGGAGGCTGCTCTCCCTCCCTGAGCCAGCAGCAGCAGCAGCAG 900
DB 841 CCAGGAGGATTACCGAAACCGGAGGCTGCTCTCCCTCCCTGAGCCAGCAGCAGCAGCAG 900
QY 901 CTGCACTACAGCCCTGGCTTCCACCCCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 960
DB 901 CTGCACTACAGCCCTGGCTTCCACCCCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 960
QY 961 TGGCAGCCCAACTGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCA 1020
DB 961 TGGCAGCCCAACTGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCACTGCA 1020
QY 1021 GAGTGCCTTTTCGAGACTGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1080
DB 1021 GAGTGCCTTTTCGAGACTGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1080
QY 1081 GCAGGAGCCAGCAGCTGCGCGGCTGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1140
DB 1081 GCAGGAGCCAGCAGCTGCGCGGCTGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1140
QY 1141 ACTTCTGCTGCGAAAGACCAATGCTACAGCGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1200
DB 1141 ACTTCTGCTGCGAAAGACCAATGCTACAGCGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1200
RESULT 3
AAS03189
ID AAS03189 standard; cDNA; 1200 BP.
XX
XX AAS03189;
AC
XX
XX 29-AUG-2001 (first entry)
DT
XX
XX Human T-lymphocyte specific antigen CD27 cDNA sequence.
DE
XX
XX Human; T-lymphocyte specific antigen; immune-mediated disease; CD27;
KW infection; immune deficiency disorder; hypersensitivity; inflammation;
KW systemic lupus erythematosus; platelet disorder; rheumatoid arthritis;
KW transplant rejection; asthma; ss.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
PH CDS 101..883
FT FT /*tag= a
FT FT /product= "CD27 antigen"
FT FT /transl_except= (pos:200..202,aa:Arg)
FT FT sig_peptide 101..160
FT FT /*tag= b
FT FT mat_peptide 161..880
FT FT /*tag= c
XX
XX US6218525-B1.
XX
XX 17-APR-2001.
XX
XX 01-DEC-1992; 92US-00983647.
PF
```

XX 25-FEB-1988; 88US-00160416.
PR 13-JUL-1989; 89US-00379076.
PR 13-JUL-1990; 90US-00553759.
XX
PA (GEO) GEN HOSPITAL CORP.
XX
XX Seed B, Aruffo A, Simmons D;
XX
DR WPI; 2001-289848/30.
DR P-PSDB; AAU02446.
XX
XX New recombinant DNA encoding CD28 useful for diagnosing and treating
PT immune-mediated diseases, infections or disorders, e.g. systemic lupus
PT erythematosus, asthma, transplant rejection, rheumatoid arthritis.
XX
PS Example 13; Col 61-62; 72pp; English.
XX
CC The present sequence encoding for human T-lymphocyte specific antigen
CC CD27 is 1 of various human lymphocyte cell surface antigen cDNA sequences
CC (AAS03172, AAS03173, AAS03175-AAS03195) described in the present
CC invention. The invention relates to a novel method of cloning cDNA
CC encoding cell surface antigens and efficient construction of cDNA
CC libraries. Also described are 2 expression vectors (AAS03171, AAS03174)
CC which provide high level expression in eukaryotic host cells. A
CC genetically engineered cDNA sequence encoding the CD28 amino acid
CC extracellular domain sequence (amino acids 1-134 given in AAU02437)
CC and/or comprising nucleotides 100-759, 154-555 or 154-759 of the CD28
CC cDNA sequence (AAS03175) is also new. The purified genes and proteins are
CC useful for immunodiagnostic and immunotherapeutic applications, such as
CC in the diagnosis and treatment of immune-mediated diseases, infections or
CC disorders in animals and humans. Such diseases include immune deficiency
CC diseases, diseases of immediate type of hypersensitivity, asthma,
CC hypersensitivity pneumonitis, systemic lupus erythematosus, rheumatoid
CC arthritis, acute and chronic inflammation, platelet disorders, plasma and
CC other cell neoplasms, parasitic diseases, multiple sclerosis, Guillain-
CC Barre syndrome and tissue and organ transplant rejection. The sequences
CC can also be used to identify, isolate and purify other antibodies and
CC antigens
XX
SQ Sequence 1200 BP; 260 A; 373 C; 341 G; 226 T; 0 U; 0 Other;

Query Match 100.0%; Score 1200; DB 4; Length 1200;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1200; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGTGCAAGAGAGACAGCAGCGCCAGCTTGGAGGTGCTAACTCCAGAGGCCAGCAT 60
DB 1 GGGGTGCAAGAGAGACAGCAGCGCCAGCTTGGAGGTGCTAACTCCAGAGGCCAGCAT 60
QY 61 CAGCAACTGGGCACAGAAAGAGAGCGCCCTGGGACAGGACATGGACGGCCACATCCCTG 120
DB 61 CAGCAACTGGGCACAGAAAGAGAGCGCCCTGGGACAGGACATGGCACGGGCCACATCCCTG 120
QY 121 GTGGCTGTGCTTCTGGGACCTGTGGGCTCTCAGCTACTCCAGGCCCCCAAGAGCTG 180
DB 121 GTGGCTGTGCTTCTGGGACCTGTGGGCTCTCAGCTACTCCAGGCCCCCAAGAGCTG 180
QY 181 CCAGAGAGGCACTACTGGGCTCAGGGAAGCTGTGCTGCCAGATGTGTAGCCAGGAAC 240
DB 181 CCAGAGAGGCACTACTGGGCTCAGGGAAGCTGTGCTGCCAGATGTGTAGCCAGGAAC 240
QY 241 ATTCTCTGTGAAGGACTGTGACACAGATAGAAAGGCTGTCTAGTGTGATCCTTGCATACC 300
DB 241 ATTCTCTGTGAAGGACTGTGACACAGATAGAAAGGCTGTCTAGTGTGATCCTTGCATACC 300
QY 301 GGGGGTCTCTTCTCTCTGACACACACACACACCGGGCCCACTGTGAGAGCTGTGGCAGTG 360
DB 301 GGGGGTCTCTTCTCTCTGACACACACACACACCGGGCCCACTGTGAGAGCTGTGGCAGTG 360
QY 361 TAACTCTGGTCTTCTCTCTGCGCACTGCACCACTACTGCGCAATGTCTGAGTGTGCTGTGCG 420
DB 361 TAACTCTGGTCTTCTCTCTGCGCACTGCACCACTACTGCGCAATGTCTGAGTGTGCTGTGCG 420

QY 421 CAATGCTGGCAGTGCAGGGACAAGAGTGCACCGAGTGTGATCCTCTTCCAAACCCCTTC 480
DB 421 CAATGCTGGCAGTGCAGGGACAAGAGTGCACCGAGTGTGATCCTCTTCCAAACCCCTTC 480
QY 481 GCTGACCGCTCGGTGCTCTCAGGCCCTGAGGCCACACACCCCTCAGCCACCACTTACTTTA 540
DB 481 GCTGACCGCTCGGTGCTCTCAGGCCCTGAGGCCACACACCCCTCAGCCACCACTTACTTTA 540
QY 541 TGTCAGTGAGATGCTGGAGGCCAGGACAGCTGGGCAATGACAGATCTCTGGCTGACTTCAG 600
DB 541 TGTCAGTGAGATGCTGGAGGCCAGGACAGCTGGGCAATGACAGATCTCTGGCTGACTTCAG 600
QY 601 GCAGCTGCTGCTGGCCGAGCTCTCTACCCACTGGCCACCCCAAGATCCTGTGCAAGTCC 660
DB 601 GCAGCTGCTGCTGGCCGAGCTCTCTACCCACTGGCCACCCCAAGATCCTGTGCAAGTCC 660
QY 661 CGATTTTATTCGCATCTTGTGATCTTCTCTGGAATGTTCTTGTTCACCCCTGGCCCG 720
DB 661 CGATTTTATTCGCATCTTGTGATCTTCTCTGGAATGTTCTTGTTCACCCCTGGCCCG 720
QY 721 GGCCTGTCTCTCCATCAACGAAGGAATATAGATCAAAACAAAGGAGAAAGTCTCTGTGA 780
DB 721 GGCCTGTCTCTCCATCAACGAAGGAATATAGATCAAAACAAAGGAGAAAGTCTCTGTGA 780
QY 781 GCCTGACAGCCCTTCTGTTACAGCTGCCCAAGGAGGAGGGGAGGAGGAGGAGGAGGAGG 840
DB 781 GCCTGACAGCCCTTCTGTTACAGCTGCCCAAGGAGGAGGGGAGGAGGAGGAGGAGGAGG 840
QY 841 CCAGGAGGATTAACCAAAACCGAGCTGCTCTCCCTGAGCCAGCACCTCGCGGTAG 900
DB 841 CCAGGAGGATTAACCAAAACCGAGCTGCTCTCCCTGAGCCAGCACCTCGCGGTAG 900
QY 901 CTGCACTACAGCCCTGGCTTCCACCCCAACCCCGGACCATCCAAAGGAGAGTGTAGACC 960
DB 901 CTGCACTACAGCCCTGGCTTCCACCCCAACCCCGGACCATCCAAAGGAGAGTGTAGACC 960
QY 961 TGGCAGCCACAACTGAGTCCCATCTCTTGTGAGGGCCCTTCTCTGTGTACACGTGACA 1020
DB 961 TGGCAGCCACAACTGAGTCCCATCTCTTGTGAGGGCCCTTCTCTGTGTACACGTGACA 1020
QY 1021 GAGTGCCTTTTCGAGACTGGCAGGACGAGGACAAATATGAGTGGAGTGGAGTGGGAA 1080
DB 1021 GAGTGCCTTTTCGAGACTGGCAGGACGAGGACAAATATGAGTGGAGTGGAGTGGGAA 1080
QY 1081 GCAGAGCCCAAGCCAGCTGCGCGCGCTGCAGAGGGGGGGGCTCTGTTGTAAAGGCAC 1140
DB 1081 GCAGAGCCCAAGCCAGCTGCGCGCGCTGCAGAGGGGGGGGCTCTGTTGTAAAGGCAC 1140
QY 1141 ACTTCTGCTGCGAAAGACCCACATGCTACAGACGGGCAAAATAAAGTGACAGATGACC 1200
DB 1141 ACTTCTGCTGCGAAAGACCCACATGCTACAGACGGGCAAAATAAAGTGACAGATGACC 1200

RESULT 4

AD049368
ID AD049368 standard; cDNA; 1200 BP.

XX AD049368;

DT AC
DX 15-JUL-2004 (first entry)

XX Human CD27 cDNA.

DE cell surface antigen; immune-mediated disorder; asthma;

XX rheumatoid arthritis; multiple sclerosis; vasculitis; inflammation; ss;

XX gene; human.

XX Homo sapiens.

OS Homo sapiens.

XX US2004072283-A1.

XX 15-APR-2004.

PD 15-APR-2004.

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XX 17-APR-2001; 2001US-00836544.
PF 25-FEB-1988; 88US-00160416.
XX 13-JUL-1989; 89US-00379076.
PR 23-MAR-1990; 90US-00498809.
PR 13-JUL-1990; 90US-00553759.
PR 01-DEC-1992; 92US-00983647.
XX (SEED/) SEED B.
PA (ALLE/) ALLEN J.
PA (ARUF/) ARUFFO A.
PA (CAME/) CAMERINI D.
PA (LAUF/) LAUFFER L.
PA (OQUE/) OQUENDO C.
PA (SIMM/) SIMMONS D.
PA (STAM/) STAMENKOVIC I.
PA (STEN/) STENGELIN S.
PA (AMIO/) AMIOT M.
XX Seed B, Allen J, Aruffo A, Camerini D, Lauffer L, Oquendo C;
PI Simmons D, Stamenkovic I, Stengelin S, Amiot M;
PI P-PSDB; ADO49369.
XX WPI; 2004-328571/30.
DR DR
DR DR
XX New cloning cDNA segments encoding cell surface antigens of human
PT lymphocytes, useful in diagnosing and treating asthma, rheumatoid
PT arthritis, multiple sclerosis, vasculitis and inflammation and
PT infections.
XX Claim 1; Page 33-34; 75pp; English.
XX The invention relates to a cloned cDNA segment encoding a cell surface
CC antigen selected from CD1a, CD1b, CD1c, CD2, CD6, CD7, CD13, CD14, CD16,
CC CD19, CD20, CD26, CD31, CD32, CD33, CD34, CD36, CD37, CD38,
CC CD39, CD40, CD43 and their functional derivatives. The cell
CC surface antigens of human lymphocytes prepared from the cDNAs are useful
CC in diagnostic and therapeutic utility in immune-mediated disorders
CC (asthma, rheumatoid arthritis, multiple sclerosis, vasculitis and
CC inflammation) and infections in mammals, including humans. The present
CC sequence represents a human cell surface antigen cDNA.
XX Sequence 1200 BP; 260 A; 373 C; 341 G; 226 T; 0 U; 0 Other;
Query Match 100.0%; Score 1200; DB 12; Length 1200;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1200; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GGGGTGCAAGAGAGACAGCGCCCGCTGGAGGTGCTAACTCCAGAGGCCAGCAT 60
Db 1 GGGGTGCAAGAGAGAGACAGCGCCCGCTGGAGGTGCTAACTCCAGAGGCCAGCAT 60
Qy 61 CAGCAACTGGGCAAGAAAGAGCGCGCTGGCAGGGACCATGGCAGCGGCACATCCCTG 120
Db 61 CAGCAACTGGGCAAGAAAGAGCGCGCTGGCAGGGACCATGGCAGCGGCACATCCCTG 120
Qy 121 GTGGCTGTGGGACCCCTGTGGGGCTCTCAGCTACTCCAGCCCCCAAGAGCTG 180
Db 121 GTGGCTGTGGGACCCCTGTGGGGCTCTCAGCTACTCCAGCCCCCAAGAGCTG 180
Qy 181 CCCAGAGAGGCACACTGGGGCTCAGGGAAGAGCTGTGCTCCAGATGTGAGCCAGGAAC 240
Db 181 CCCAGAGAGGCACACTGGGGCTCAGGGAAGAGCTGTGCTCCAGATGTGAGCCAGGAAC 240
Qy 241 ATTCTCTGTGAAGACTGTGACCAAGCATAGAAAGGCTGCTCAGTGTATCCTTGATACC 300
Db 241 ATTCTCTGTGAAGACTGTGACCAAGCATAGAAAGGCTGCTCAGTGTATCCTTGATACC 300
Qy 301 GGGGGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 360
Db 301 GGGGGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 360
361 TAACTCTGGTCTTCTGTTGCAACATGCAACCAATCACTGCAATGCTGAGTGCCTGTGCG 420
361 TAACTCTGGTCTTCTGTTGCAACATGCAACCAATCACTGCAATGCTGAGTGCCTGTGCG 420
421 CAATGGCTGGCAGTGCAGGGGCAAGAGAGTGCAACCGAGTGTGATCCTCTTCCAAACCTTC 480
421 CAATGGCTGGCAGTGCAGGGGCAAGAGAGTGCAACCGAGTGTGATCCTCTTCCAAACCTTC 480
481 GCTGACCGCTCGGTCTCTCAGGCCCTGAGCCCAACACCACTCAGCCCAACCACTTACCTTA 540
481 GCTGACCGCTCGGTCTCTCAGGCCCTGAGCCCAACACCACTCAGCCCAACCACTTACCTTA 540
541 TGTCAGTGAGATGCTGGAGGCCAGGACAGCTGGGCAATGAGATCTCTGGCTGACTTCAG 600
541 TGTCAGTGAGATGCTGGAGGCCAGGACAGCTGGGCAATGAGATCTCTGGCTGACTTCAG 600
601 GCAGCTGCTGCCCGGACTCTCTACCCACCTGAGCCCAACCAAGATCCTCTGTGAGCTC 660
601 GCAGCTGCTGCCCGGACTCTCTACCCACCTGAGCCCAACCAAGATCCTCTGTGAGCTC 660
661 CGATTTTATTTGCACTCTTGTGATCTTCTTGAATGTTCTTGTGTTTTCACCTTGGCCGG 720
661 CGATTTTATTTGCACTCTTGTGATCTTCTTGAATGTTCTTGTGTTTTCACCTTGGCCGG 720
721 GGCCTGTTCTTCCATCAACGAAGGAATATAGATCAAAACAAAGGAGAAAGTCTCTGTGGA 780
721 GGCCTGTTCTTCCATCAACGAAGGAATATAGATCAAAACAAAGGAGAAAGTCTCTGTGGA 780
781 GCTGACAGCTTGTGCTTACAGCTGCCCCAGGAGGAGGCGGAGGAGGAGGAGGAGGAGG 840
781 GCTGACAGCTTGTGCTTACAGCTGCCCCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 840
841 CCAGGAGGATTTACCGAAACCGGAGGCTGCTCTCTCCCTCCCTGAGCCAGCACTCTGCGGTAG 900
841 CCAGGAGGATTTACCGAAACCGGAGGCTGCTCTCTCCCTCCCTGAGCCAGCACTCTGCGGTAG 900
901 CTGCACTACAGCCCTGGCTTCAACCCCAACCCCGCGACCATCAAGGGAGAGTGAAC 960
901 CTGCACTACAGCCCTGGCTTCAACCCCAACCCCGCGACCATCAAGGGAGAGTGAAC 960
961 TGGCAGCCCAACTGCAAGTCCCATCTCTTGTGTCAGGGCCCTTCTCTGTGTACAGTGCAC 1020
961 TGGCAGCCCAACTGCAAGTCCCATCTCTTGTGTCAGGGCCCTTCTCTGTGTACAGTGCAC 1020
1021 GAGTGCCTTTTCGAGACTGCGAGGACGAGGACAAATATGATGATGAGTGGAGTGGGAA 1080
1021 GAGTGCCTTTTCGAGACTGCGAGGACGAGGACAAATATGATGAGTGGAGTGGGAA 1080
1081 GCAGGAGCCCAAGCAGCTGCGCGCGTGCAGAGGGCGGGGCTCTGTGTTGTAAGGCAC 1140
1081 GCAGGAGCCCAAGCAGCTGCGCGCGTGCAGAGGGCGGGGCTCTGTGTTGTAAGGCAC 1140
1141 ACTTCTGTGCGAAGAGCCCATCTCTACAGCGGCAAAATGAAGTGCAGAGTGAAC 1200
1141 ACTTCTGTGCGAAGAGCCCATCTCTACAGCGGCAAAATGAAGTGCAGAGTGAAC 1200
RESULT 5
AAQ21183
ID AAQ21183 standard; DNA; 1203 BP.
XX
AC AAQ21183;
XX
XX 25-MAR-2003 (revised)
DT 21-MAY-1992 (first entry)
XX
XX Encodes T lymphocyte-specific CD27 Antigen.
XX Rapid immunoselection cloning technique; cell surface antigen;
XX carcinoma antigen CD40; ss.
XX Homo sapiens.
XX

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FH	Key	Location/Qualifiers	
FT	sig_peptide	101..160	
FT		/*tag= a	
FT	mat_peptide	161..880	
FT		/*tag= b	
XX			
PN	WO9201049-A.		
XX			
XX	23-JAN-1992.		
XX			
PF	13-JUL-1990;	90US-00553759.	
XX			
PR	13-JUL-1990;	90US-00553759.	
XX			
PA	(GEO) GEN HOSPITAL CORP.		
XX			
PI	Seed B, Aruffo A, Amiot M;		
XX			
XX	WPI; 1992-056864/07.		
DR	P-PSDB; AAR20814.		
XX			
XX	New CD53 cell surface antigen and DNA encoding it - for immuno-therapy		
PT	and diagnosis of haematopoietic neoplasms, etc.		
PT			
XX			
PS	Example 13; Page 103; 160pp; English.		
XX			
CC	A cDNA clone encoding CD27 was obtained from human T lymphocyte cDNA		
CC	transferred into COS cells and immunoselected using the Mabs OKR18a and		
CC	CLB-9r4 (see e.g. AAO1164 for description of the rapid immunoselection		
CC	cloning method). A positive vector contained a 1.2kb insert. The ability		
CC	to interfere with the binding of CD27 positive T cells with antigen		
CC	presenting cells, or the ability to cause such binding to occur on		
CC	surfaces other than lymphocyte cells, can be useful in diagnostics and		
CC	therapy. (Updated on 25-MAR-2003 to correct FA field.)		
XX			
SQ	Sequence 1203 BP; 261 A; 375 C; 341 G; 226 T; 0 U; 0 Other;		
	Query Match 100.0%; Score 1200; DB 2; Length 1203;		
	Best Local Similarity 100.0%; Pred. No. 0;		
	Matches 1200; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
QY	1 GGGGTGCAAGAAGAGACAGCAGCGCCAGCTTGGAGGTGCTAACTCCAGAGGCCAGCAT	60	
DB	1 GGGGTGCAAGAAGAGACAGCAGCGCCAGCTTGGAGGTGCTAACTCCAGAGGCCAGCAT	60	
QY	61 CAGCAACTGGGCACAGAAAGAGAGCCGCTGGGAGGGACCATGGCACATCCCTG	120	
DB	61 CAGCAACTGGGCACAGAAAGAGAGCCGCTGGGAGGGACCATGGCACATCCCTG	120	
QY	121 GTGGCTGTGCTTCTGGGACCCCTGTGGGCTCTCAGCTACTCCAGGCCCCCAAGAGCTG	180	
DB	121 GTGGCTGTGCTTCTGGGACCCCTGTGGGCTCTCAGCTACTCCAGGCCCCCAAGAGCTG	180	
QY	181 CCAGAGAGGCACACTACTGGGCTCAGGGAAGCTGTGCTGCCAGATGTGTGAGCCAGGAAC	240	
DB	181 CCAGAGAGGCACACTACTGGGCTCAGGGAAGCTGTGCTGCCAGATGTGTGAGCCAGGAAC	240	
QY	241 ATTCTCTGTGAAGGACTGTGACACAGCATAGAAAGGCTGCTCAGTGTGATCCTTGGATACC	300	
DB	241 ATTCTCTGTGAAGGACTGTGACACAGCATAGAAAGGCTGCTCAGTGTGATCCTTGGATACC	300	
QY	301 GGGGGTCTCTTCTCTCTGACACACACACCGGCCCCCACTGTGAGAGCTGTGGCAGCTG	360	
DB	301 GGGGGTCTCTTCTCTCTGACACACACACCGGCCCCCACTGTGAGAGCTGTGGCAGCTG	360	
QY	361 TAACTCTGGTCTTCTCTGTTGGCAACTGCACCATCACTGCGCAATGTGAGTGTGCTGTGCG	420	
DB	361 TAACTCTGGTCTTCTCTGTTGGCAACTGCACCATCACTGCGCAATGTGAGTGTGCTGTGCG	420	
QY	421 CAATGCTGGCAGTGACAGGACCAAGAGTGCACCGAGTGTGATCTCTTCCAAACCCCTTC	480	
DB	421 CAATGCTGGCAGTGACAGGACCAAGAGTGCACCGAGTGTGATCTCTTCCAAACCCCTTC	480	

QY	481	GCTGACCGCTCGGTGGTCTCTCAGGCCCCGAGCCACACACCTCAGCCGCCACCTTACTCTTA	540
DB	481	GCTGACCGCTCGGTGGTCTCTCAGGCCCCGAGCCACACACCTCAGCCGCCACCTTACTCTTA	540
QY	541	TGTCAGTGAAGTGTGGAGGCCAGGACAGCTGGGCACATGCAGACTCTGGCTGACTTCAG	600
DB	541	TGTCAGTGAAGTGTGGAGGCCAGGACAGCTGGGCACATGCAGACTCTGGCTGACTTCAG	600
QY	601	GCAGCTGCTGCCCGGACTCTCTACCCACTGGGCCACCCCAAGATCCTGTGAGCTC	660
DB	601	GCAGCTGCTGCCCGGACTCTCTACCCACTGGGCCACCCCAAGATCCTGTGAGCTC	660
QY	661	CGATTTTATTTCGATCTTGTGATCTTCTCGAATGTTCTTGTGTTTCACTCCCTGGCCGG	720
DB	661	CGATTTTATTTCGATCTTGTGATCTTCTCGAATGTTCTTGTGTTTCACTCCCTGGCCGG	720
QY	721	GGCCCTGTTTCTCCATCAACGAAGAAATATAGATCAAAACAAAGGAGAAAGTCTCTGGGA	780
DB	721	GGCCCTGTTTCTCCATCAACGAAGAAATATAGATCAAAACAAAGGAGAAAGTCTCTGGGA	780
QY	781	GCCTGCAGAGCTTGTCTGTACAGCTGCCCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	840
DB	781	GCCTGCAGAGCTTGTCTGTACAGCTGCCCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	840
QY	841	CCAGGAGGATTACCGAAACCGGAGCTGCTGCTCCCTCGAGCCAGCACCTGCGGTAG	900
DB	841	CCAGGAGGATTACCGAAACCGGAGCTGCTGCTCCCTCGAGCCAGCACCTGCGGTAG	900
QY	901	CTGCACTACAGCCCTGGGCTCCACCCCAACCCCGGAGCCATCCAAAGGAGAGTGAGACC	960
DB	901	CTGCACTACAGCCCTGGGCTCCACCCCAACCCCGGAGCCATCCAAAGGAGAGTGAGACC	960
QY	961	TGGCAGCCACAATGAGTCCCATCTCTTGTGAGGCCCCCTTCTGTGTACACGTGACA	1020
DB	961	TGGCAGCCACAATGAGTCCCATCTCTTGTGAGGCCCCCTTCTGTGTACACGTGACA	1020
QY	1021	GAGTGCCTTTTCGAGACTGGCAGGACGAGGACAAATATGAGTGGAGTGAGAGTGGGAA	1080
DB	1021	GAGTGCCTTTTCGAGACTGGCAGGACGAGGACAAATATGAGTGGAGTGAGAGTGGGAA	1080
QY	1081	GCAGAGGCCACCCAGCTGCGCGCGCTGCAGAGGGGGGGGCTCTGTTTGAAGGCAC	1140
DB	1081	GCAGAGGCCACCCAGCTGCGCGCGCTGCAGAGGGGGGGGCTCTGTTTGAAGGCAC	1140
QY	1141	ACTTCTGCTGCGAAGACCCACATGCTACAGACGGGCAAAATAAAGTGACAGATGACC	1200
DB	1141	ACTTCTGCTGCGAAGACCCACATGCTACAGACGGGCAAAATAAAGTGACAGATGACC	1200

RESULT 6

AAT14722

ID AAT14722 standard; cDNA; 1200 BP.

XX AAT14722;

AC AC

XX 25-MAR-2003 (revised)

DT 31-OCT-1996 (first entry)

XX Human CD27 antigen cDNA.

XX Cell surface antigen; cloning; immunoselection; immunotherapy; therapy;

KW diagnosis; vector; COS; CD27; T-lymphocyte; ss.

XX Homo sapiens.

XX Key Location/Qualifiers

FT 101..883

FT /*tag= a

FT /transl_except= (200..202, aa:Arg)

FT /transl_except= (413..415, aa:Ala)

FT 101..160

FT /*tag= b

FT 161..880

FT mat_peptide

```

FT      misc_difference 742      /*tag= c
FT      FT              /*tag= d
FT      /note= "an additional adenine base at position 742 is
FT      given in the specification, but interrupts the reading
FT      frame"
XX
XX      US5506126-A.
XX
XX      09-APR-1996.
XX
XX      18-OCT-1993; 93US-00139273.
XX
XX      25-FEB-1988; 88US-00160416.
XX      13-JUL-1989; 89US-00379076.
XX      13-JUL-1990; 90US-0053759.
XX      01-DEC-1992; 92US-00983647.
XX
XX      (GEO ) GEN HOSPITAL CORP.
XX
XX      Seed B, Aruffo A;
XX      WPI; 1996-200279/20.
XX      P-PSDB; AAR91441.
XX
XX      Cloning of cDNA encoding cell surface antigen - useful for isolation of
XX      diagnostic and therapeutic proteins.
XX
XX      Example 13; Col 67-68; 79pp; English.
XX
XX      A cDNA clone (AAT14722) codes for human antigen CD27 (AAR91441), a T-
XX      lymphocyte activation antigen. It was obtd. by constructing an expression
XX      library in COS cells using T-lymphocyte cDNA, and immunoselecting with
XX      monoclonal antibodies OKT18a and CLB-9F4. This immunoselection cloning
XX      method, developed to clone genes for cell surface antigens of human
XX      lymphocytes (see also AAT14703-04 and AAT14706-26), has general appln.
XX      Cell surface antigens are obtd. for diagnostic and therapeutic use.
XX      (Updated on 25-MAR-2003 to correct PF field.)
XX
XX      Sequence 1200 BP; 259 A; 372 C; 342 G; 227 T; 0 U; 0 Other;
XX
XX      Query Match 99.7%; Score 1196.8; DB 2; Length 1200;
XX      Best Local Similarity 99.8%; Pred. No. 0;
XX      Matches 1198; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
QY      1 GGGGTGCNAGAGAGACAGCGCCAGCTTGGAGGTGCTAACTCCAGAGGCCAGCAT 60
DB      1 GGGGTGCNAGAGAGACAGCGCCAGCTTGGAGGTGCTAACTCCAGAGGCCAGCAT 60
QY      61 CAGCAACTGGGCACAGAAAGAGCGCGCTGGCAGGAGACCATGGCAGCGGCACATCCCTG 120
DB      61 CAGCAACTGGGCACAGAAAGAGCGCGCTGGCAGGAGACCATGGCAGCGGCACATCCCTG 120
QY      121 GTGGCTGTGCGTTCTGGGACCCCTGTGGGGCTCTCAGCTACTCCAGCCCCCAAGAGCTG 180
DB      121 GTGGCTGTGCGTTCTGGGACCCCTGTGGGGCTCTCAGCTACTCCAGCCCCCAAGAGCTG 180
QY      181 CCAGAGAGGCACTACTTGGGCTCAGGGAAGAGCTGTGCTGCAGATGTGTGAGCCAGGAAC 240
DB      181 CCAGAGAGGCACTACTTGGGCTCAGGGAAGAGCTGTGCTGCAGATGTGTGAGCCAGGAAC 240
QY      241 ATTCTCTGTGAAGGACTGTGACAGCATAGAAAGGCTGCTCAGTGTGATCTTGTGCATACC 300
DB      241 ATTCTCTGTGAAGGACTGTGACAGCATAGAAAGGCTGCTCAGTGTGATCTTGTGCATACC 300
QY      301 GGGGGTCTCCTTCTCTCTGACCAACACACCGGCCCCCACTGTGAGAGCTGTGCGCACTG 360
DB      301 GGGGGTCTCCTTCTCTCTGACCAACACACCGGCCCCCACTGTGAGAGCTGTGCGCACTG 360
QY      361 TAACTCTGGTCTTCTGTTGGCACTGACCATCACTGCCAATGCTGAGTGTGCTGTGCG 420
DB      361 TAACTCTGGTCTTCTGTTGGCACTGACCATCACTGCCAATGCTGAGTGTGCTGTGCG 420

```

RESULT 7

AAA50595

ID AAA50595 standard; cDNA; 1200 BP.

XX

AC AAA50595;

XX

DT 19-DEC-2000 (first entry)

XX

DE Human cell surface antigen CD27 cDNA.

XX

KW CD27; cell surface antigen; human; immunoselection; panning;

KW immunodiagnosis; diagnosis; immunotherapy; gene therapy; immune disorder;

KW infection; asthma; immune-complex disease; amyloidosis;

KW multiple sclerosis; parasitic disease; autoimmune disease; T-lymphocyte;

XX

OS Homo sapiens.

XX

FH Key Location/Qualifiers

FT CDS 101..883

```

FT      /*tag= a
FT      /transl_except= (pos:200. .202, aa:Arg)
FT      sig_peptide
FT      101..160
FT      /*tag= b
FT      mat_peptide
FT      161..880
FT      /*tag= c
XX
PN      US6111093-A.
XX
PD      29-AUG-2000.
XX
PF      28-OCT-1998; 98US-00181612.
XX
PR      25-FEB-1988; 88US-00160416.
PR      13-JUL-1989; 89US-00379076.
PR      23-MAR-1990; 90US-00498809.
PR      13-JUL-1990; 90US-00553759.
PR      01-DEC-1992; 92US-00983647.
XX
PA      (GEHO ) GEN HOSPITAL CORP.
XX
PI      Stamenkovic I, Seed B;
XX
DR      WPI; 2000-586382/55.
DR      P-PSDB; AAY96137.
XX
XX      Isolated nucleic acid molecule encoding the CD19 cell surface antigen,
PT      useful for immunodiagnosis and immunotherapy of immune-mediated
PT      infections or disorders, e.g. asthma, immune-complex disease, parasitic
PT      diseases.
XX
PS      Example 13; Col 67-68; 75pp; English.
XX
CC      The present sequence is that of cDNA encoding human cell surface antigen
CC      (CSA) CD27 (see AAY96137), a T-lymphocyte activation antigen. The cDNA
CC      was isolated from a human T-lymphocyte cDNA introduced into COS cells and
CC      screened using a novel method of the invention. The method, designed to
CC      isolate CSA nucleic acids, is based upon transient expression of a CSA in
CC      eukaryotic cells and physical selection of cells expressing the antigen
CC      by adhesion to (panning on) an antibody-coated substrate such as a
CC      culture dish. CSA nucleic acids isolated by the method of the invention,
CC      and the proteins they encode, are useful for immunodiagnostic and
CC      immunotherapeutic applications, including the diagnosis and treatment of
CC      immune-mediated infections, diseases, and disorders in animals, including
CC      humans. These disorders include aschma, immune-complex disease,
CC      amyloidosis, parasitic diseases or multiple sclerosis. The ability to
CC      interfere with the binding of CD27 positive T cells with antigen
CC      presenting cells, or the ability to cause such binding to occur on
CC      surfaces other than lymphocyte cells, can be useful in diagnostics and
CC      therapy. A soluble CD27 fusion protein will be useful to prevent
CC      undesired T cell proliferation in certain autoimmune diseases
XX
SQ      Sequence 1200 BP; 260 A; 371 C; 343 G; 226 T; 0 U; 0 Other;
Query Match          99.7%; Score 1196.8; DB 3; Length 1200;
Best Local Similarity 99.8%; Pred.No. 0;
Matches 1198; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY      1 GGGGTGCAAGAGAGACAGACGCGCCAGCTTGGAGGTGCTAACTCCAGAGGCCAGCAT 60
DB      1 GGGGTGCAAGAGAGACAGACGCGCCAGCTTGGAGGTGCTAACTCCAGAGGCCAGCAT 60
QY      61 CAGCAACTGGGCACAGAAAGAGAGCCCGCTGGGAGGAGCCATGGCAGGCCATCCCTG 120
DB      61 CAGCAACTGGGCACAGAAAGAGAGCCCGCTGGGAGGAGGATGGCAGGCCATCCCTG 120
QY      121 GTGGCTGTGGCTTCTGGGACCCCTGGTGGGCTCTCAGTACTCCAGGCCCCCAAGAGCTG 180
DB      121 GTGGCTGTGGCTTCTGGGACCCCTGGTGGGCTCTCAGTACTCCAGGCCCCCAAGAGCTG 180
QY      181 CCCAGAGAGGCACACTACTGGGGCTCAGGGAAGAGCTGTGCTGCCAGATGTGTGACCCAGGAAC 240
DB      181 CCCAGAGAGGCACACTACTGGGGCTCAGGGAAGAGCTGTGCTGCCAGATGTGTGACCCAGGAAC 240

```

RESULT 8

ABQ80112
ID ABQ80112 standard; cDNA; 1204 BP.

XX ABQ80112;

XX AC ABQ80112;
DT 13-JUN-2003 (first entry)

QY 241 ATTCTCTGTAGGAGCTGTGACACGATAGAAAGGCTGCTCAGTGTGATCCTTGCATACC 300
DB 241 ATTTCTCGTGAAGGAGCTGTGACACGATAGAAAGGCTGCTCAGTGTGATCCTTGCATACC 300
QY 301 GGGGGTCTCTTCTCTCTCTGACACACACCGCGGCCCACTGTGAGAGCTGTGCGGACTG 360
DB 301 GGGGGTCTCTTCTCTCTCTGACACACACCGCGGCCCACTGTGAGAGCTGTGCGGACTG 360
QY 361 TAACTCTGGTCTTCTCTGTTGCAACTGCAACCATCACTGCAATGTGATGCTGCTGTG 420
DB 361 TAACTCTGGTCTTCTCTGTTGCAACTGCAACCATCACTGCAATGTGATGCTGCTGTG 420
QY 421 CAATGGCTGGCAGTGCAGGAGTGCACCGAGTGTGATCCTCTTCCAAACCCCTTC 480
DB 421 CAATGGCTGGCAGTGCAGGAGTGCACCGAGTGTGATCCTCTTCCAAACCCCTTC 480
QY 481 GCTGACCGCTCGGTCTCTCAGGCCCTGAGGCCACACCCCTCAGGCCACCCACTTACTTA 540
DB 481 GCTGACCGCTCGGTCTCTCAGGCCCTGAGGCCACACCCCTCAGGCCACCCACTTACTTA 540
QY 541 TGTCAGTGAGATGCTGGAGGCCAGACAGCTGGGCAATGACAGACTCTGGCTGACTTCAG 600
DB 541 TGTCAGTGAGATGCTGGAGGCCAGACAGCTGGGCAATGACAGACTCTGGCTGACTTCAG 600
QY 601 GCAGTGTCTGCTGCTGCTCTCTACCCAGTGGGCCACCCCAAGATCCTCTGCGAGCTC 660
DB 601 GCAGTGTCTGCTGCTGCTCTCTACCCAGTGGGCCACCCCAAGATCCTCTGCGAGCTC 660
QY 661 CGATTTTATTCGCATCTTGTGATCTTCTCTGGAATGTTCTTGTGTTTTCACCTGGCCGG 720
DB 661 CGATTTTATTCGCATCTTGTGATCTTCTCTGGAATGTTCTTGTGTTTTCACCTGGCCGG 720
QY 721 GGCCCTGTTCTCCATCAACGAAGAAATATAGATCAAAAGAGAAAGTCTGTGTGA 780
DB 721 GGCCCTGTTCTCCATCAACGAAGAAATATAGATCAAAAGAGAAAGTCTGTGTGA 780
QY 781 GCCTCAGAGCTTCTGTTACAGCTGCCCCAGGGAGGAGGGCAGCACCATCCCCAT 840
DB 781 GCCTCAGAGCTTCTGTTACAGCTGCCCCAGGGAGGAGGGCAGCACCATCCCCAT 840
QY 841 CCAGAGGATTAACCAAAACCGAGCTGCTCTCCCTCGAGCCAGCACCTGCGGTAG 900
DB 841 CCAGAGGATTAACCAAAACCGAGCTGCTCTCCCTCGAGCCAGCACCTGCGGTAG 900
QY 901 TTGCACTACAGCCCTGGGCTCCACCCCAACCCCGCGACCATCCAAAGGAGAGTGAGACC 960
DB 901 TTGCACTACAGCCCTGGGCTCCACCCCAACCCCGCGACCATCCAAAGGAGAGTGAGACC 960
QY 961 TGGCAGCCACAACTGCAGTCCCATCTCTTGTTCAGGGCCCTTCTCTGTGTACACGTGACA 1020
DB 961 TGGCAGCCACAACTGCAGTCCCATCTCTTGTTCAGGGCCCTTCTCTGTGTACACGTGACA 1020
QY 1021 GAGTGCCTTTTCGAGACTGGCAGGACGAGGACAAATATGGATGAGGTGGAGTGGGAA 1080
DB 1021 GAGTGCCTTTTCGAGACTGGCAGGACGAGGACAAATATGGATGAGGTGGAGTGGGAA 1080
QY 1081 GCAGAGGCCAGCCAGCTGCGCGCTGCAGAGAGGGCGGGGCTCTGTTGTAAGGCAC 1140
DB 1081 GCAGAGGCCAGCCAGCTGCGCGCTGCAGAGAGGGCGGGGCTCTGTTGTAAGGCAC 1140
QY 1141 ACTTCTGCTGGAAGACCCCATCTCTACAGAGCGGCAAAATAAAGTGCAGATGACC 1200
DB 1141 ACTTCTGCTGGAAGACCCCATCTCTACAGAGCGGCAAAATAAAGTGCAGATGACC 1200

RESULT 9
ACA64893
ID ACA64893 standard; DNA; 1204 BP.
XX AC
XX ACA64893;
XX
XX 27-JUN-2003 (first entry)
XX
XX Human CD27 DNA corresponding to M63928.
XX
XX Human; chronic inflammatory joint disease; infection; tumour;
KW antiinflammatory; cytostatic; antiarthritic; antirheumatic;
KW immunosuppressive; gene therapy; etiological pathogenicity; ds.
XX
XX Homo sapiens.
OS
XX
XX DE10127572-A1.
PN
XX
XX 05-DEC-2002.
PD
XX
XX 30-MAY-2001; 2001DE-01027572.
PF
XX
XX 30-MAY-2001; 2001DE-01027572.
PR
XX
XX (PATH-) PATHOARRAY GMBH.
PA
XX
XX Haupl T, Ungethuen U, Blaess S;
PI
XX
XX WPI; 2003-240797/24.
DR
XX
XX Reagents for diagnosis, study and therapy of chronic inflammatory joint
PT and other diseases, comprises any of many specified genes or derived
PT proteins.
XX
XX Claim 1; Page; 12pp; German.
XX
XX This invention describes a novel reagent for diagnosis, molecular
CC definition and therapy of chronic inflammatory joint diseases, and other
CC inflammatory disorders, infective or tumour diseases in humans. The
CC products of the invention have antiinflammatory, cytostatic,
CC antiarthritic, antirheumatic and immunosuppressive activity, and can be
CC used for gene therapy. The reagent of the invention and any proteins and
CC antibodies derived from it, are used (i) for analysing tissue and blood
CC samples for medical diagnosis; (ii) for diagnosis and characterisation of
CC chronic joint diseases, on the basis of molecular characterisation, and
CC determining the etiological pathogenicity principle of as yet
CC uncharacterised inflammatory diseases, also monitoring progression and/or
CC treatment of disease, and optimisation of therapy and (iii) for
CC developing treatments for inflammatory diseases, particularly of joints,
CC infections and tumours. ACA64801-ACA64965 represent human polynucleotides
CC used in the method of the invention
XX
XX Sequence 1204 BP; 263 A; 376 C; 338 G; 227 T; 0 U; 0 Other;
Query Match 98.5%; Score 1182.6; DB 8; Length 1204;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1196; Conservative 0; Mismatches 4; Indels 1; Gaps 1;
QY 1 GGGGTCGCAAGAGAGACAGCGCCAGCTTGGAGGTGCTAACTCCAGAGGCCAGCAT 60
DB 1 GGGGTCGCAAGAGAGACAGCGCCAGCTTGGAGGTGCTAACTCCAGAGGCCAGCAT 60
QY 61 CAGCAACTGGGCNACAGAAAGAGCGCCCTGGGAGGACCATGGACGCCACATCCCTG 120
DB 61 CAGCAACTGGGCACAGAAAGAGCGCCCTGGGAGGACCATGGACGCCACATCCCTG 120
QY 121 GTGGCTGTGCTTCTGGGACCCCTGTGGGGCTCTCAGCTACTCCAGGCCCCCAAGAGCTG 180
DB 121 GTGGCTGTGCTTCTGGGACCCCTGTGGGGCTCTCAGCTACTCCAGGCCCCCAAGAGCTG 180
QY 181 CCCAGAGAGGCACCTACTGGGGCTCAGGGAAGAGCTGTGCTGCCAGATGTGTGAGCCAGGAAC 240

RESULT 10
ADD25535

XX Homo sapiens.
OS WO2003068268-A2.
PN
XX
XX 21-AUG-2003.
PD
XX
XX 13-FEB-2003; 2003WO-EP001461.
PF
XX
XX 14-FEB-2002; 2002GB-00003480.
PR
XX 29-JUN-2002; 2002GB-00015095.
XX
XX (BIOI-) BIOINVENT INT AB.
PA
XX
XX Ek S, Borrebaeck CAK, Ehinger M;
PI
XX WPI; 2003-697496/66.
DR
XX P-PSDB; ADL15013.
DR
XX
XX New compound for treating, imaging, diagnosing or prognosing mantle cell
PT lymphoma, comprises a binding moiety (e.g. antibody) that binds to a
PT protein (e.g. human autotoxin polypeptide), and a further moiety (e.g.
PT nucleic acid).
PT
XX
XX Disclosure; SEQ ID NO 26; 342pp; English.
PS
XX
XX The invention relates to a compound comprising a binding moiety which
CC selectively binds to a protein or polypeptide listed in the specification
CC (e.g. human autotoxin polypeptide or human CD24 signal transducer
CC polypeptide), and a further moiety. The compound is useful in medicine or
CC in the treatment, imaging, diagnosis or prognosis of mantle cell
CC lymphomas (MCL). It is used in preparing a medicament for treating MCL, a
CC diagnostic or prognostic agent for MCL, or an agent for imaging MCL cells
CC in the body of an individual. This sequence corresponds to a gene
CC encoding one of the polypeptides of the invention.
XX
XX Sequence 1204 BP; 263 A; 376 C; 338 G; 227 T; 0 U; 0 Other;
SQ

Query Match 98.5%; Score 1182.6; DB 10; Length 1204;
Best Local Similarity 99.6%; Pred. NO. 0;
Matches 1196; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

QY 1 GGGGTGCAAGAGACAGACAGCGCCAGCTTGGAGGTGCTAACTCCAGAGGCCAGCAT 60
DB 1 GGGGTGCAAGAGAGACAGACAGCGCCAGCTTGGAGGTGCTAACTCCAGAGGCCAGCAT 60

QY 61 CAGCAACTGGGCACAGAAAGAGAGCGCCCTGGGAGGACCATGGCACGCCACATCCCTG 120
DB 61 CAGCAACTGGGCACAGAAAGAGAGCGCCCTGGGAGGACCATGGCACGCCACATCCCTG 120

QY 121 GTGGCTGTGCTGTGGGAGACCTGTGGGGCTCTCAGTACTCCAGCCCCCAAGAGCTG 180
DB 121 GTGGCTGTGCTGTGGGAGACCTGTGGGGCTCTCAGTACTCCAGCCCCCAAGAGCTG 180

QY 181 CCAGAGAGGCACTACTGGGCTCAGGAAAGCTGTGCTCCAGATGTGAGCCAGGAAC 240
DB 181 CCAGAGAGGCACTACTGGGCTCAGGAAAGCTGTGCTCCAGATGTGAGCCAGGAAC 240

QY 241 ATTCTCTGTGAAGGACTGTGACAGCATAGAAGGCTGTGCTGATGCTTGCATACC 300
DB 241 ATTCTCTGTGAAGGACTGTGACAGCATAGAAGGCTGTGCTGATGCTTGCATACC 300

QY 301 GGGGCTCTCTTCTCTCTGACCAACACCCGGGCCCACTGTGAGAGCTGTGGGACTG 360
DB 301 GGGGCTCTCTTCTCTCTGACCAACACCCGGGCCCACTGTGAGAGCTGTGGGACTG 360

QY 361 TBACTCTGTCTCTCTGTTGCAACTGACCATCTGCTCAATGCTGAGTGTGCTGTGCG 420
DB 361 TBACTCTGTCTCTCTGTTGCAACTGACCATCTGCTCAATGCTGAGTGTGCTGTGCG 420

QY 421 CAATGGCTGGCAGTGCAGGAGCAAGAGGTGCACCGAGTGTGATCTCTTCCAAACCTTTC 480
DB 421 CAATGGCTGGCAGTGCAGGAGCAAGAGGTGCACCGAGTGTGATCTCTTCCAAACCTTTC 480

QY 481 GCTGACCGCTCGTCTGCTCAGGGCCCTGAGCCCAACACCTCAGCCACCCACTTACCTTA 540
DB 481 GCTGACCGCTCGTCTGCTCAGGGCCCTGAGCCCAACACCTCAGCCACCCACTTACCTTA 540

QY 541 TGTCACTGAGATGCTGGAGGCCAGGACAGCTGGGCACATGACAGACTCTGGCTGACTTCAG 600
DB 541 TGTCACTGAGATGCTGGAGGCCAGGACAGCTGGGCACATGACAGACTCTGGCTGACTTCAG 600

QY 601 GCAGTGTGCTGCCGAGACTCTCTTACCCACTTGGGCACCCCAAGATCCCTGTGAGCTC 660
DB 601 GCAGTGTGCTGCCGAGACTCTCTTACCCACTTGGGCACCCCAAGATCCCTGTGAGCTC 660

QY 661 CGATTTTATTCGCATCTTGTGATCTCTCTGGAATGTTCTTGTGTTTTCACCTGSCCGG 720
DB 661 CGATTTTATTCGCATCTTGTGATCTCTCTGGAATGTTCTTGTGTTTTCACCTGSCCGG 720

QY 721 GGCCCTGTTCTCCATCAACGAAGAAATATAGATCAAAACAAAGGAGAAAGTCTGTGGA 780
DB 721 GGCCCTGTTCTCCATCAACGAAGAAATATAGATCAAAACAAAGGAGAAAGTCTGTGGA 780

QY 781 GCCTGCAGAGCTTGTGTTACAGCTGCCCCAGGAGAGAGGAGGAGCAGCACCATCCCAT 840
DB 781 GCCTGCAGAGCTTGTGTTACAGCTGCCCCAGGAGAGAGGAGGAGCAGCACCATCCCAT 840

QY 841 CCAGGAGATTTACCGAAACCGGAGCCTGCTCTCCCTGAGCCAGCACCCTGCGGTAG 900
DB 841 CCAGGAGATTTACCGAAACCGGAGCCTGCTCTCCCTGAGCCAGCACCCTGCGGTAG 900

QY 901 CTGCACTACAGCCCTGGGCTCTCCACCCCAACCCCGCCGACCATCCAAAGGAGAGTGAGACC 960
DB 901 CTGCACTACAGCCCTGGGCTCTCCACCCCAACCCCGCCGACCATCCAAAGGAGAGTGAGACC 960

QY 961 TGGCAGCCACAACTGCAGTCCCATCTCTTGTGAGGGGCCCTTCTGTGTACAGTGACA 1020
DB 961 TGGCAGCCACAACTGCAGTCCCATCTCTTGTGAGGGGCCCTTCTGTGTACAGTGACA 1020

QY 1021 GAGTCCCTTTTCGAGACTGGCAGGAGCAGGACCAATATGATGAGTGAGAGTGAGGA 1080
DB 1021 GAGTCCCTTTTCGAGACTGGCAGGAGCAGGACCAATATGATGAGTGAGAGTGAGGA 1080

QY 1081 GCAGGAGCCAGCAGCTGCGCGCGC-TGCAGGAGGCGGGGCTCTGGTTGTAAAGCA 1139
DB 1081 GCAGGAGCCAGCAGCTGCGCGCGC-TGCAGGAGGCGGGGCTCTGGTTGTAAAGCA 1140

QY 1140 CACTTCTGTGCGGAAAGACCCACATGTCTAAGACGGGCAAAATAAAGTGACAGATGAC 1199
DB 1141 CACTTCTGTGCGGAAAGACCCACATGTCTAAGACGGGCAAAATAAAGTGACAGATGAC 1200

QY 1200 C 1200
DB 1201 C 1201

RESULT 12
ADI31701
ID ADI31701 standard; cDNA; 1204 BP.
XX
AC ADI31701;
XX AC
DT 17-JUN-2004 (first entry)
XX
DE Human cDNA #1027.
XX
KW Human; gene; ss; immunological response; immunopathological condition;
KW Crohn's disease; asthma; ulcerative colitis; hyperesinophilia;
KW irritable bowel syndrome; osteoarthritis; rheumatoid arthritis;
KW acute monocytic leukaemia; antiinflammatory; antiaesthetic; antiulcer;
KW osteopathic; antiarthritic; antirheumatic; cytostatic.
XX
OS Homo sapiens.
XX
PN US6607879-B1.

KW bronchitis; ulcerative colitis; diabetes; multiple sclerosis;
KW osteoporosis; pancreatitis; infection; arthritis; lymph node.
OS Homo sapiens.
XX US2004077003-A1.
PN 22-APR-2004.
XX 14-AUG-2003; 2003US-00641643.
XX 09-FEB-1998; 98US-00023655.
PR (INCY-) INCYTE CORP.
PA Cocks BG, Stuart SG, Seilhamer JJ;
PI WPI; 2004-387937/36.
XX New compositions having a number of first, second and third
XX polynucleotide probes, useful in research and diagnostic applications in
PT cancer and immunological conditions e.g. AIDS, diabetes, osteoporosis and
PT infections.
XX Claim 15; SEQ ID NO 1027; 16pp; English.
XX The invention relates to polynucleotides which are used as probes to
CC detect genes differentially expressed in an immunological response,
CC abundantly expressed in an immunological response and/or coding for a
CC polypeptide known to regulate blood cell biology. The polynucleotides are
CC useful in research and diagnostic applications particularly in cancer and
CC immunopathological conditions, such as AIDS, allergies, anaemia, asthma,
CC atherosclerosis, bronchitis, ulcerative colitis, diabetes, multiple
CC sclerosis, osteoporosis, pancreatitis, infections and arthritis. The
CC present sequence represents a human lymph node cDNA used to detect blood
CC cell and immunological response gene expression. Note: The present
CC sequence does not appear in the printed specification but was obtained in
CC electronic format from the USPTO web site
CC (seqdata.uspto.gov/sequence.html?DocID=20040077003).
XX
SQ Sequence 1204 BP; 263 A; 376 C; 338 G; 227 T; 0 U; 0 Other;

Query Match 98.5%; Score 1182.6; DB 13; Length 1204;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1196; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

QY 1 GGGGTGCAAGAGAGACAGCAGCGCCAGCTTGGAGGTCTAACTCCAGAGGCCAGCAT 60
DB 1 GGGGTGCAAGAGAGAGACAGCAGCGCCAGCTTGGAGGTCTAACTCCAGAGGCCAGCAT 60
QY 61 CAGCACTGGGCACAGAAAGAGCGCGCTGGCAGGAGCCATGGCAGCGCCATCCCTG 120
DB 61 CAGCACTGGGCACAGAAAGAGCGCGCTGGCAGGAGCCATGGCAGCGCCATCCCTG 120
QY 121 GTGCTGTGCTTCTGGGACCTGTGGGCTCTCAGTACTCCAGCGCCCAAGAGCTG 180
DB 121 GTGCTGTGCTTCTGGGACCTGTGGGCTCTCAGTACTCCAGCGCCCAAGAGCTG 180
QY 181 CCCAGAGAGGCACCTACTGGGCTCAGGGAAGCTGTGTGCGCAGATGTGAGCCAGGAAC 240
DB 181 CCCAGAGAGGCACCTACTGGGCTCAGGGAAGCTGTGTGCGCAGATGTGAGCCAGGAAC 240
QY 241 ATTCTCTGTGAAGACTGTGACCGAGCATAGAAAGGCTGCTCAGTGTGATCTTGCATACC 300
DB 241 ATTCTCTGTGAAGACTGTGACCGAGCATAGAAAGGCTGCTCAGTGTGATCTTGCATACC 300
QY 301 GGGGGTCTCTCTCTCTGACCAACACACCGCGCCCTCTGTGAGAGCTGTGGCACTG 360
DB 301 GGGGGTCTCTCTCTCTGACCAACACACCGCGCCCTCTGTGAGAGCTGTGGCACTG 360
QY 361 TAACTCTGGTCTTCTCTCGTTCGCAACTGCACCATCACTGCGCAATGCTGAGTGTGCTGTCG 420
DB 361 TAACTCTGGTCTTCTCTCGTTCGCAACTGCACCATCACTGCGCAATGCTGAGTGTGCTGTCG 420

QY 421 CAATGGCTGGCAGTGCAGGGACAAGAGTGCACCGAGTGTGATCTCTTCCAAACCCCTTC 480
DB 421 CAATGGCTGGCAGTGCAGGGACAAGAGTGCACCGAGTGTGATCTCTTCCAAACCCCTTC 480
QY 481 GCTGACCGCTCGGTCTCAGGCCCTGAGCCACACCTCTGAGCCACCCCTTACCTTAA 540
DB 481 GCTGACCGCTCGGTCTCAGGCCCTGAGCCACACCTCTGAGCCACCCCTTACCTTAA 540
QY 541 TGTCTAGTGTGATGTCTGAGGCCAGGACAGCTGGGCACATGACAGCTCTGGCTGACTTCAG 600
DB 541 TGTCTAGTGTGATGTCTGAGGCCAGGACAGCTGGGCACATGACAGCTCTGGCTGACTTCAG 600
QY 601 GCAGCTGCTGCCCGGACTCTCTTACCCATGGGCCACCCCAAGATCTCTGTGAGCTC 660
DB 601 GCAGCTGCTGCCCGGACTCTCTTACCCATGGGCCACCCCAAGATCTCTGTGAGCTC 660
QY 661 CGATTTTATTCGATCTTGTGATCTTCTCTGGAATGTTCTTGTTCCTTCCCTGCGCGG 720
DB 661 CGATTTTATTCGATCTTGTGATCTTCTCTGGAATGTTCTTGTTCCTTCCCTGCGCGG 720
QY 721 GGCCTGTTCTCCATCAACGAAGAAATATAGATCAAAACAAAGGAGAAAGTCTCTGTGA 780
DB 721 GGCCTGTTCTCCATCAACGAAGAAATATAGATCAAAACAAAGGAGAAAGTCTCTGTGA 780
QY 781 GCTGTCAGAGCCTTGTCTTACAGCTGCCCCCAGGGAGGAGGGCAGCACCATCCCAT 840
DB 781 GCTGTCAGAGCCTTGTCTTACAGCTGCCCCCAGGGAGGAGGGCAGCACCATCCCAT 840
QY 841 CCAGGAGGATTAACCGAAACCGGAGCTCTGCTCCCTGAGCCAGCACCTGCGGTAG 900
DB 841 CCAGGAGGATTAACCGAAACCGGAGCTCTGCTCCCTGAGCCAGCACCTGCGGTAG 900
QY 901 CTGCACTACAGCCCTGGCCCTCCACCCCGCCAGCCATCAAGGGAGAGTGAGACC 960
DB 901 CTGCACTACAGCCCTGGCCCTCCACCCCGCCAGCCATCAAGGGAGAGTGAGACC 960
QY 961 TGGCAGCCACAATGTCAGTCCCCTCTTGTTCAGGGCCCTTTCCTGTGTACAGTGACA 1020
DB 961 TGGCAGCCACAATGTCAGTCCCCTCTTGTTCAGGGCCCTTTCCTGTGTACAGTGACA 1020
QY 1021 GAGTGTCTTTTCGAGCTGGCAGGGACGAGGACAAATATGTGATGAGTGGAGTGGGAA 1080
DB 1021 GAGTGTCTTTTCGAGCTGGCAGGGACGAGGACAAATATGTGATGAGTGGAGTGGGAA 1080
QY 1081 GCAGGAGCCAGCCAGCTGCGCGCGG-TGCAGGAGGGGGGGCTCTGTTCTTAAGGCA 1139
DB 1081 GCAGGAGCCAGCCAGCTGCGCGCGG-TGCAGGAGGGGGGGCTCTGTTCTTAAGGCA 1140
QY 1140 CACTTCTGTGCGAAAGACCCACATGCTTACAGAGCGGCAAAATAAAGTGACAGATGAC 1199
DB 1141 CACTTCTGTGCGAAAGACCCACATGCTTACAGAGCGGCAAAATAAAGTGACAGATGAC 1200
QY 1200 C 1200
DB 1201 C 1201

RESULT 15
ADQ23741
ID ADQ23741 standard; DNA; 1711 BP.
XX
AC ADQ23741;
XX
XX 26-AUG-2004 (first entry)
DT
XX
DE Human soft tissue sarcoma-upregulated DNA - SEQ ID 6561.
XX
XX soft tissue sarcoma; cytostatic; gene therapy; vaccine; screening; human;
KW db.
OS
XX Homo sapiens.
XX

PN W02004048938-A2.
XX 10-JUN-2004.
XX 26-NOV-2003; 2003WO-US038193.
XX 26-NOV-2002; 2002US-0429739P.
PR (PROT-) PROTEIN DESIGN LABS INC.
XX Aziz N, Ginsburg WM, Zlotnik A;
PI WPI; 2004-441208/41.
XX
XX Early detection of soft tissue sarcoma comprises determining expression
PT of a gene in a first soft tissue sample and a normal soft tissue sample
PT and comparing the gene expression, also useful in treating soft tissue
PT sarcoma.
XX
XX Example 2; SEQ ID NO 6561; 210pp; English.
XX
XX The invention relates to a novel method for detecting soft tissue sarcoma
CC which comprises obtaining a first soft tissue sample from an individual
CC and a normal soft tissue sample from the same or different individual,
CC determining the expression of a gene in both samples and comparing the
CC expression of the gene in both soft tissue samples, where a higher level
CC of protein expression in the first soft tissue sample indicates the
CC presence of soft tissue sarcoma. The method of the invention has
CC cytotatic applications and may be useful for detecting soft tissue
CC sarcoma, possibly via gene therapy or vaccine production. The nucleic
CC acid sequences may be useful in diagnostic and screening applications.
CC The current sequence is that of a human soft tissue sarcoma-upregulated
CC DNA of the invention. The current sequence is not shown within the
CC specification per se but was submitted in CD format by the inventor.
XX
SQ Sequence 1711 BP; 441 A; 524 C; 472 G; 274 T; 0 U; 0 Other;

Query Match 98.5%; Score 1182.6; DB 12; Length 1711;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1196; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

QY 1 GGGGTGCAAGAGACAGACAGCGCCAGCTTGGAGGTGCTAACTCCAGAGGCCAGCAT 60
DB 98 GGGGTGCAAGAGACAGACAGCGCCAGCTTGGAGGTGCTAACTCCAGAGGCCAGCAT 157
QY 61 CAGCAACTGGGCACAGAAAGAGCCCGCTGGGCAGGGACCATGGCAGGCCACATCCCTG 120
DB 158 CAGCAACTGGGCACAGAAAGAGCCCGCTGGGCAGGGACCATGGCAGGCCACATCCCTG 217
QY 121 GTGGCTGTGCGTTCTGGGGACCTGTGGGGCTCTCAGCTACTCCAGGCCCCCAAGAGCTG 180
DB 218 GTGGCTGTGCGTTCTGGGGACCTGTGGGGCTCTCAGCTACTCCAGGCCCCCAAGAGCTG 277
QY 181 CCAGAGAGGCACACTACTGGGCTCAGGGAAGCTGTGCTGCCAGATGTGTGAGCCAGGAAC 240
DB 278 CCAGAGAGGCACACTACTGGGCTCAGGGAAGCTGTGCTGCCAGATGTGTGAGCCAGGAAC 337
QY 241 ATTCTCTGTGAGGACTGTGACAGCATAGAAAGGCTGCTCAGTGTGATCTTGCATACC 300
DB 338 ATTCTCTGTGAGGACTGTGACAGCATAGAAAGGCTGCTCAGTGTGATCTTGCATACC 397
QY 301 GGGGGTCTCTCTCTCTCTGACCAACACACCCGGGCCCTCTGTGAGAGCTGTGGCAGCTG 360
DB 398 GGGGGTCTCTCTCTCTCTGACCAACACACCCGGGCCCTCTGTGAGAGCTGTGGCAGCTG 457
QY 361 TAACTCTGGTCTTCTCTGTTGCGAACTGCACCACTCACTGCGCAATGCTGAGTGTGCTGTGCG 420
DB 458 TAACTCTGGTCTTCTCTGTTGCGAACTGCACCACTCACTGCGCAATGCTGAGTGTGCTGTGCG 517
QY 421 CAAATGCTGGCAGTGCAGGGAACAAGAGTGCACCGAGTGTGATCTCTTCCAAACCCCTTC 480
DB 518 CAAATGCTGGCAGTGCAGGGAACAAGAGTGCACCGAGTGTGATCTCTTCCAAACCCCTTC 577

QY 481 GCTGACCGCTCGGTGCTCTCAGGCCCTGAGCCCAACACCCCTCAGCCACCCACTTACTCTTA 540
DB 578 GCTGACCGCTCGGTGCTCTCAGGCCCTGAGCCCAACACCCCTCAGCCACCCACTTACTCTTA 637
QY 541 TGTCAGTGAGATGCTGGAGGCCAGGACAGCTGGGCAATGACAGACTCTGGCTGACTTCAG 600
DB 638 TGTCAGTGAGATGCTGGAGGCCAGGACAGCTGGGCAATGACAGACTCTGGCTGACTTCAG 697
QY 601 GCAGCTGCTGCCCGGAGCTCTCTTACCCACTGGGCCACCCCAAGATCCCTGTGAGCTC 660
DB 698 GCAGCTGCTGCCCGGAGCTCTCTTACCCACTGGGCCACCCCAAGATCCCTGTGAGCTC 757
QY 661 CGATTTTATTCGCATCCTTGTGATCTTCTCGAATGTTCTTGTGTTTTCACCTGCGCGG 720
DB 758 CGATTTTATTCGCATCCTTGTGATCTTCTCGAATGTTCTTGTGTTTTCACCTGCGCGG 817
QY 721 GGCCTGTGTTCTCCATCAACGAAGAAATATAGATCAAAACAAAGGAGAAAGTCTCTGGA 780
DB 818 GGCCTGTGTTCTCCATCAACGAAGAAATATAGATCAAAACAAAGGAGAAAGTCTCTGGA 877
QY 781 GCCTCAGAGCCTTCTCGTTACAGCTGCCCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 840
DB 878 GCCTCAGAGCCTTCTCGTTACAGCTGCCCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 937
QY 841 CCAGGAGGATTACCGAAACCGAGCCTGCTGCTCCCTCAGCCAGCAGCAGCAGCAGCAGCAG 900
DB 938 CCAGGAGGATTACCGAAACCGAGCCTGCTGCTCCCTCAGCCAGCAGCAGCAGCAGCAGCAG 997
QY 901 CTGCACTACAGCCCTGGGCTCCACCCCAACCCCGCGGACCATCCAAAGGAGAGTGAGACC 960
DB 998 CTGCACTACAGCCCTGGGCTCCACCCCAACCCCGCGGACCATCCAAAGGAGAGTGAGACC 1057
QY 961 TGGCAGGCCACAACTGCAGTCCCATCTCTGTGTCAGGGCCCTTCTCTGTGTACACGTCACA 1020
DB 1058 TGGCAGGCCACAACTGCAGTCCCATCTCTGTGTCAGGGCCCTTCTCTGTGTACACGTCACA 1117
QY 1021 GAGTGCCTTTTCGAGACTGGCAGGAGCAGGACAAATATGAGATGAGGTGGAGGTGGGAA 1080
DB 1118 GAGTGCCTTTTCGAGACTGGCAGGAGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAA 1177
QY 1081 GCAGAGCCCAAGCAGCTGCGCGCGG-TGCAGGAGGGCGGGGCTCTGGTTGTAAAGGCA 1139
DB 1178 GCAGAGCCCAAGCAGCTGCGCTGCTGCTGAGGAGGGCGGGGCTCTGGTTGTAAAGCA 1237
QY 1140 CACTTCTGCTGCGAAAGACCACTGCTTACAGAGGGGCAAAATAAAGTGCAGATGAC 1199
DB 1238 CACTTCTGCTGCGAAAGACCACTGCTTACAGAGCGGGCAAAATAAAGTGCAGATGAC 1297
QY 1200 C 1200
DB 1298 C 1298

Search completed: December 7, 2005, 04:16:19
Job time : 818 secs